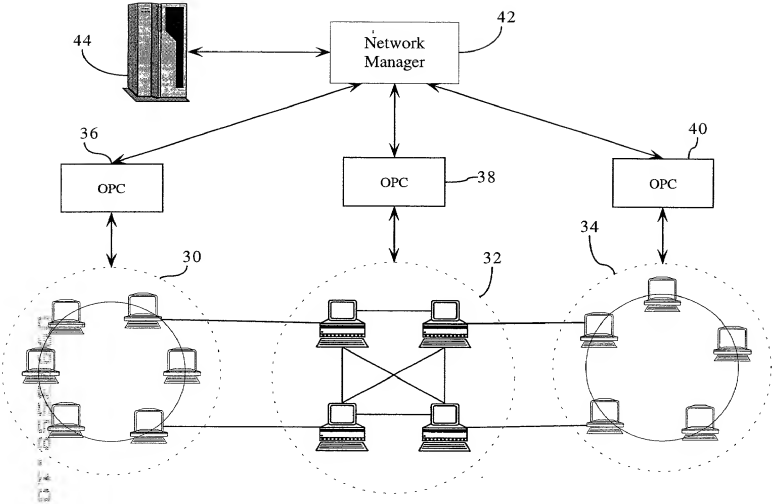

FIGURE 1

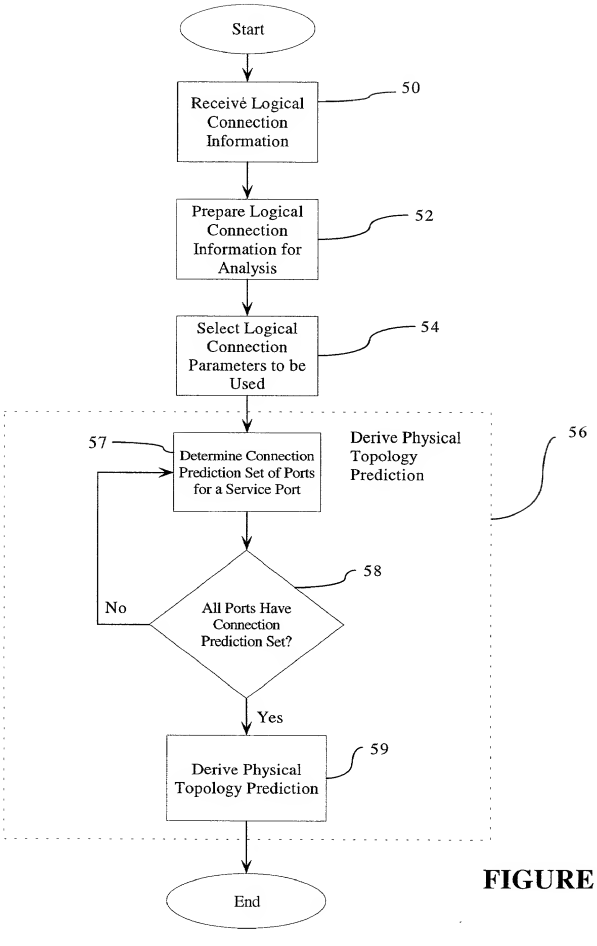
Start
Receive Logical Connection Information
50
Prepare Logical Connection Information for Analysis
52
Select Logical Connection Parameters to be Used
54
57
Determine Connection Prediction Set of Ports for a Service Port
Derive Physical Topology Prediction
56
58
No
All Ports Have Connection Prediction Set?
Yes
59
Derive Physical Topology Prediction
End

FIGURE 2

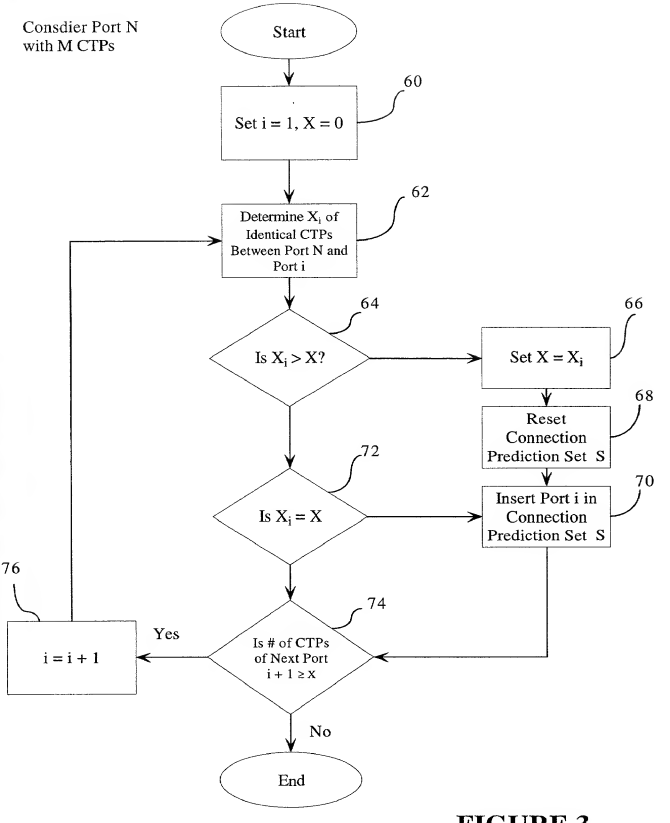
Consdier Port N with M CTPs
Start
60
Set i = 1, X = 0
62
Determine X_i of Identical CTPs Between Port N and Port i
64
Is $X_i > X$?
66
Set $X = X_i$
68
Reset Connection Prediction Set S
72
Is $X_i = X$
70
Insert Port i in Connection Prediction Set S
76
74
Yes
i = i + 1
Is # of CTPs of Next Port i + 1 ≥ X
No
End

FIGURE 3

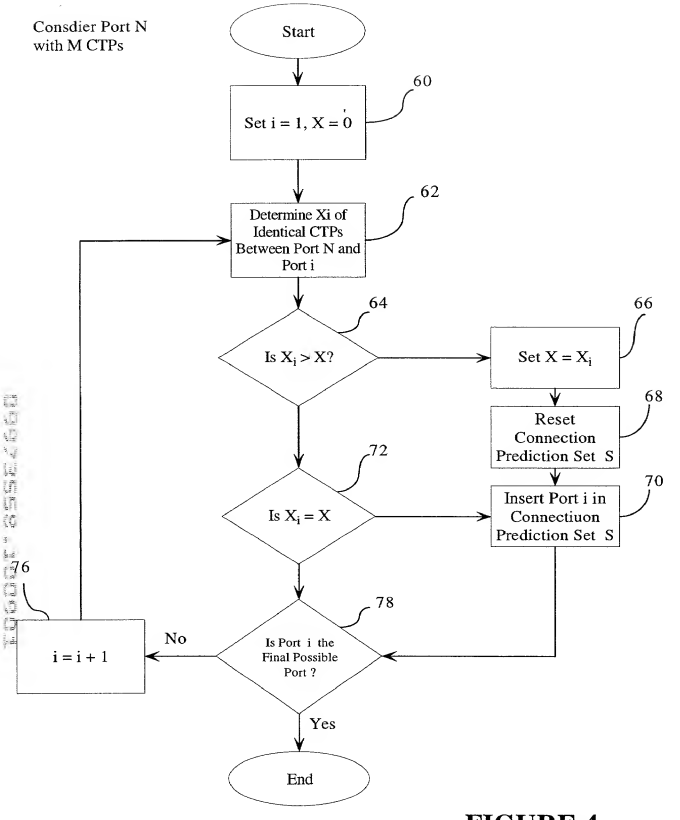
Consdier Port N with M CTPs
Start
60
Set i = 1, X = 0
62
Determine Xi of Identical CTPs Between Port N and Port i
64
Is $X_i > X$?
66
Set $X = X_i$
68
Reset Connection Prediction Set S
72
Is $X_i = X$
70
Insert Port i in Connectiuon Prediction Set S
76
78
No
i = i + 1
Is Port i the Final Possible Port ?
Yes
End

FIGURE 4

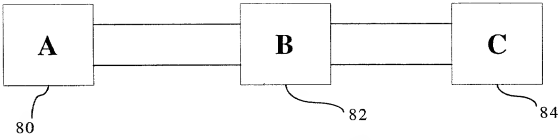

FIGURE 5A

FIGURE 5B

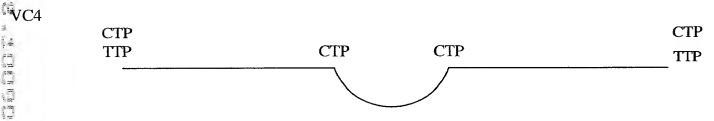

FIGURE 5C

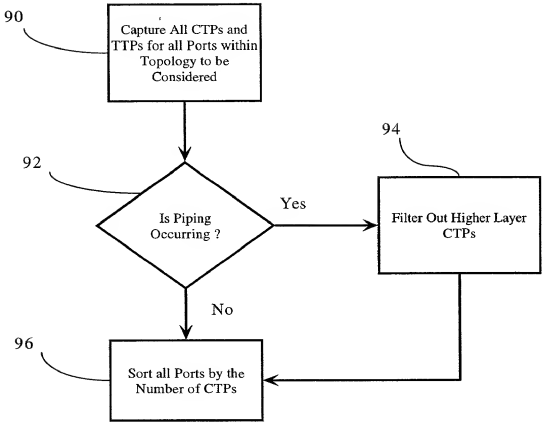
90
Capture All CTPs and TTPs for all Ports within Topology to be Considered
92
Is Piping Occurring ?
Yes
94
Filter Out Higher Layer CTPs
No
96
Sort all Ports by the Number of CTPs

FIGURE 6